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	Application No.	Applicant(s)			
	10/657,963	KROLL ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Deborah Malamud	3766	<u>.</u>		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>		
1. A This communication is responsive to the amendments rece	eived 20 November 2006.				
2. $\boxtimes$ The allowed claim(s) is/are <u>1-19</u> .					
<ul> <li>3. Acknowledgment is made of a claim for foreign priority unapprint and all blue blue blue blue blue blue blue bl</li></ul>	been received. been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:	,				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the rec	quirements		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or N tion is deficient.	OTICE OF		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li> </ol>	on's Patent Drawing Review(PTO-				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawii he header according to 37 CFR 1.121(	ngs in the front (not the d).	back) of		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. N AL MATERIAL.	Note the		
Attachment(s)  1. Notice of References Cited (PTO-892)	5.  Notice of Informal F	Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary				
3.  Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	te	•		
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.  Examiner's Statement of Reasons for Allowance 9.  Other				
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### **DETAILED ACTION**

The examiner acknowledges the amendments received 20 November 2006.
 Claims 20-21 are cancelled; claims 1-19 are pending.

# Claim Objections

2. In view of the cancellation of claims 20-21, the examiner withdraws the objection to claim 21.

## Claim Rejections - 35 USC § 102

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Applicant's arguments, see "Remarks," page 8, filed 20 November 2006, with respect to claims 15-16 and 18-21 have been fully considered and are persuasive. The rejection of claims 15-16 under 35 USC 102(e) has been withdrawn.

# Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Applicant's arguments, see "Remarks, page 7, filed 20 November 2006, with respect to claims 1-12 and 17 have been fully considered and are persuasive. The rejection of claims 1-12 and 17 has been withdrawn.

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## Allowable Subject Matter

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7. Claims 1-19 are allowed.

8. The following is an examiner's statement of reasons for allowance: independent claim 1 is a method comprising overdrive pacing the heart by delivering overdrive pacing pulses using a preventive overdrive pacing unit; detecting loss of capture of pacing pulses during preventive overdrive pacing using a capture detection unit; detecting tachycardia occurring subsequent to a loss of capture using a tachycardia detection unit; determining, for each tachycardia occurring following a loss of capture, whether the tachycardia spontaneously terminates; and selectively enabling automatic switching from preventive overdrive pacing to ATP therapy based on a percentage of spontaneously terminating episodes of tachycardia occurring subsequent to loss capture during preventive overdrive pacing. Independent claim 15 is a system comprising an overdrive pacing unit operative to deliver overdrive pacing pulses to the heart for preventing a tachycardia, the overdrive pacing pulses delivered to the heart if no intrinsic depolarization is detected during an overdrive pacing escape interval; an antitachycardia pacing (ATP) therapy unit operative to deliver antitachycardia pacing therapy to the heart; and a capture-based tachycardia detection unit operative to detect a tachycardia based upon loss of capture of overdrive pacing pulses; and a control unit operative to control the overdrive pacing unit and the ATP unit and to selectively enable automatic switching from preventive overdrive pacing to ATP therapy based on a percentage of spontaneously terminating episodes of tachycardia occurring subsequent to loss capture during an initial period of preventive overdrive pacing.

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9. It is known in the art to provide a system for and method of providing overdrive pacing and ATP to a heart, detecting loss of capture of pacing pulses and selecting a therapy regiment based on the diagnosis made as a result of a loss of capture. It is however neither taught nor obvious to one of ordinary skill in the art at the time of the invention to automatically switch from overdrive pacing to ATP based on a percentage of spontaneously terminating episodes of tachycardia occurring subsequent to loss of capture during preventive overdrive pacing.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Malamud whose telephone number is (571) 272-2106. The examiner can normally be reached on Monday-Friday, 9.00am-5.30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571)272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert E Pozzuto

Supervisory Patent Examiner

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